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EPIDEMIOLOGIC NOTES AND REPORTS INFECTIOUS HEPATITIS OUTBREAK College of the Holy Cross, Worcester, Massochusetts

Between Sept. 20 and Oct. 4, 1969, 26 icteric cases of infectious hepatitis (Figure 1) developed among the members and staff of the varsity football team of the College of the Holy Cross in Worcester, Massachusetts. The illnesses were of abrupt onset and were characterized by malaise, weakness, fever, nausea, abdominal pain, dark urine, and jaundice. Appropriate tests of hepatic function were consistent with the diagnosis of infectious hepatitis. The jaundiced patients, all males, were between 19 and 22 years of age with the exception of the team trainer who was 40. Liver function studies were performed on the remaining asymptomatic varsity football players, coaches, and managers (total 65). Of the 65, 59 (91 percent) were



October 11, 1969

found to have significantly increased serum glutamic pyruvic transaminase (SGPT) levels (greater than 100 mg/s). Other athletes, including members of the freshman football and rugby teams, were symptom to find Gall normal laboratory tests. The clustering of cases over a nort period of time coupled with the absence of known exposure to other hepatitis cases, ingestion of raw shellfish, or inoculations supported the hypothesis of a common source outbreak. The varsity football team reported for practice on August 26 (Continued on page 358)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

	41st WEE	K ENDED	MEDIAN	CUMULATIVE, FIRST 41 WEEKS			
DISEASE	October 11. 1969	October 12, 1968	1964 - 1968	1969	1968	MEDIAN 1964 - 1968	
Aseptic meningitis	165	159	80	2,689	3,431	2,302	
Brucellosis		5	6	182	182	202	
DiphtheriaEncephalitis, primary:	3	4	4	138	166	153	
Arthropod-borne & unspecified	39	57	47	999	1.089	1,472	
Encephalitis, post-infectious		4	4	259	401	621	
Hepatitis, serum		108	681	4,126	3,500	1 20 440	
Hepatitis, infectious		1,041	8 681	36,816	35,328	30,442	
Malaria		101	18	2,304	1,834	342	
Measles (rubeola)	135	122	679	21,000	20,122	191,496	
Meningococcal infections, total		30	35	2,469	2,135	2,191	
Civilian	29	28		2,263	1,951		
Military		2		206	184		
Mumps		1,107		70,639	128,390		
Poliomyelitis, total		-	_	15	48	48	
Paralytic		-	_	14	48	48	
Rubella (German measles)		265		50,351	44,889		
Streptococcal sore throat & scarlet fever		7,047	6,266	330,398	331,141	331,141	
Tetanus		8	6	121	138	180	
Tularemia		2	2	115	157	157	
Typhoid fever		12	11	245	305	333	
Typhus, tick-borne (Rky, Mt. spotted fever).		1	4	415	262	243	
Rabies in animals	41	58	65	2.729	2 788	3 496	

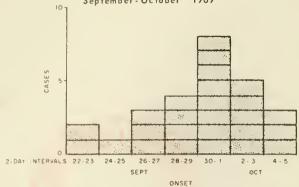
TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Botulism: Leptospirosis: * Fla2 Plague: Psittacosis: Calif1, Fla1, Wis1	12 64 3	Rabies in man: Rubella congenital syndrome: Trichinosis: Fla1 Typhus, murine:	9 163

^{*}Delayed Reports: Leptospirosis: S.C. 1

HEPATITIS - (Continued from front page)

Figure 1
26 Icteric Cases of Infectious Hepotitis by Date of Onset
College of the Holy Cross, Worcester, Massochusetts
September-October 1969



and the freshman team on September 3. Both teams used the same athletic and dining facilities, and consequently since no cases occurred in freshman players, the exposure period was presumed to be between these two dates.

Epidemiologic investigation has failed to incriminate any events or foods which could have been responsible for the outbreak, but has focused attention on the practice football field at the College. Several inadequacies in the field's water system were recognized. The faucet used to provide drinking water is at the end of a series of five

irrigation outlets, which are positioned 6 inches below ground surface. The drinking water faucet lies in the dependent portion of the system, 5 1 2 ft, below the level of the irrigation outlets. Dye studies conducted at the field have shown that under certain circumstances surface water may directly enter the water line.

Children living adjncent to the practice field customarily use it as a playground. They frequently turn on the irrigation outlets and bathe in the spray. The children are reported to occasionally use the area as a bathroom facility and have been seen urinating: acts of defectation are suspected. Within the 6 weeks prior to the onset of the outbreak, five cases of hepatitis occurred in persons living in a deteriorated, unsanitary house immediately adjacent to the field. Four of these individuals were under 14 years of age and regularly play on the practice field. Continued investigation is in progress.

(Reported by Leonard J. Morse, M.D., Head, Section of Infectious Diseases, St. Vincent Hospital, Assistant Professor of Medicine, Georgetown University School of Medicine, and Consultant to the Worcester Department of Public Health; Arnold Gurwitz, M.D., Commissioner of Health, Worcester Department of Public Health; Eugene E. Reilly, Jr., Epidemiologist, and Nicholas Fiumara, M.D., Director, Division of Communicable Diseases, Massachusetts State Health Department; and an EIS Officer.)

HEPATITIS - Sauth Caralina

Between Sept. 16 and 23, 1969, 14 members of a Boy Scout Troop at Shaw AFB, Sumter, South Carolina, were admitted to the base hospital with infectious hepatitis. One was an adult, age 23, and the rest were between 11 and 15 years of age. All had participated in a camp-out held between August 14 and 17 on an island in a nearby recreation area; all had attended the camp for a majority of the 4 days and had spent at least one night there. The first four patients had had acute onset of malaise, fever, weakness, and anorexia followed by dark urine; all had abnormal liver function tests. The remaining 10 cases were found by a liver function test survey of the 36 other campers, who had attended the camp for varying periods of time. These 10 had elevated serum transaminase and recalled having slight malaise, anorexia, and darkening of the urine within the previous 7 to 10 days.

There was no known occasion other than the camp-out where all 14 patients could have been exposed. None of the 14 recalled having had contact with a known case of viral hepatitis or gave a history of raw shellfish ingestion or blood transfusion within the 2 months prior to illness. No illnesses suggesting hepatitis were reported among their household members. These facts together with the clustering of onsets of illness and the interval between attendance at the camp-out and onset of symptoms (28 to 32 dnys) suggest a common source exposure occurring sometime during the camp-out.

At the camp-out, cooking and eating were done in small groups of three to six persons. No single food except water-melon was eaten by a majority of patients, but it was eaten just as frequently by persons who did not become ill. There is no water supply on the island and water for drinking, cooking, and dishwashing was obtained from an approved source on the mainland; however, some persons (both ill and not ill) drank, cooked, and washed dishes in untreated lake water. All campers swam in the lake during the campout. Water samples, obtained periodically from the lake, have demonstrated elevated coliform counts.

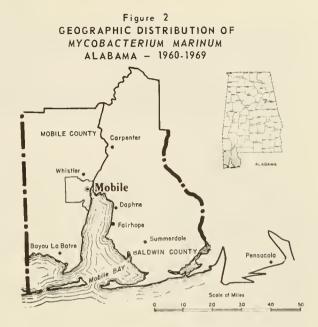
No additional cases were identified by a survey of civilinns in the surrounding community near the base, and the outbreak appears to be limited to the Boy Scout group. The exact means of exposure remains unclear.

(Reported by Brig. Gen. Q. J. Serenati, Commanding Surgeon, Headquarters Tactical Air Command, Langley AFB. Virginia; Col. Lawrence R. Sutherland, Capt. James Lehmann, and Capt. Lou Meta, MC USAF, Capt. Jerry P. Dougherty, USAF Bioenvironmental Engineering, and M Sgt. William C. Counts, USAF Military Public Health, Shaw AFB, Sumter; D. H. Robinson, M.D., Chief, Preventive Health Services, South Carolina State Board of Health; and three EIS Officers.)

"DAPHNE SORE" - Alabama

In the past 8 to 10 years, chronic skin granulomas of the elbow or knee have been seen in children and occasionally adults with a history of swimming in salt water in the Mohile, Alahama, area. The fesions have been called "daphne sores" because several patients lived in or near the town of Daphne, Alabama, on the east side of Mobile Bay (Figure 2). The medical records of 21 patients with this lesion were recently reviewed. The usual history included swimming in Mobile Bay, often sustaining an injury while swimming, which was followed 1 to 3 weeks later by the development of a raised lesion on the elhow or knee. The lesion was usually about 1 cm in diameter, often was crusted, and did not heal. There were no systemic symptoms or enlarged lymph nodes. Only the chronicity of the lesion and occasionally secondary infection or bleeding, resulting from further trauma, caused the individuals to see a physician.

Most of the patients were between 10 and 19 years of age; 10 were males and 11 were females (Table 1). They had been ill from 7 weeks to 2 years before seeking assistance from a physician. Of the 21 medical records, 10 indicated that the patient had a history of trauma, four stated that the patient had no trauma, and seven did not mention trauma. Of the 18 patients on whom skin biopsies were known to have been performed, two were positive for acid-fast bacilli. Mycobacterium marinum was cultured from the biopsy specimens from four people, Runyon Group III M. triviale was cultured from one, and one other culture had original growth that could not be further characterized.



Records also indicated that of three children who had been tuberculin skin tested two had positive reactions.

(Reported by Edward Goldsmith, M.D., Health Officer, Baldwin County, and George Newburn, M.D., Health Officer, Mobile County, Alabama; Frederick S. Wolf, M.D., Director, Bureau of Preventable Diseases, and Thomas Hosty, (Continued on page 364)

Table 1
Line Listing of Culture Proven and Other Probable Southern Alabama Mycobocterium marinum Cases

e	,	D - 11	Location	Interval From		When	Compatible	Mycobacterial	Skin
Sex	Age	Residence	of Lesion	Onset to Diagnosis	Trauma	Seen	Biopsy	Culture	Test
M	15	Daphne	Knee	5 Mo.	+	Dec. 60	+	marinum	ND
M	10	Fairhope	Heel	7 Wk.	+	Nov. 64	+	marinum	?
M	58	Mobile	Hand	7 Mo.	-	Apr. 67	+	marinum	ND
M	16	Fairhope	Elbow	8 Mo.	+	Apr. 69	+	marinum	ND
M	66	Chapman	Finger	2 Yr.	+	Mar. 68	AFB +	+	ND
F	11	Fairhope	Knee	3 Mo.	+	Nov. 68	AFB +	ND	+
\mathbf{F}	51	Fairhope	Arm	7 Wk.	+	Apr. 63	+	-	ND
F	15	Mobile	Knee	1 Yr.	_	Mar. 66	+	-	ND
F	11	Mobile	Knee	1 Yr.	?	Apr. 66	+	-	+
F	14	?	Knee	?	?	Sept. 67	?	-	ND
F	18	Mobile	Knee	4 Mo.	_	Dec. 68	+	?	ND
M	12	Summerdale	Knee	1 yr.	?	Aug. 69	+	?	ND
F	6	Mobile	Leg	2 Mo.	_	Jan. 69	+	triviale	ND
M	15	Daphne	Knee	5 Mo.	+	Dec. 60	+	ND	ND
M	7	Fairhope	Knee	10 Mo.	+	Apr. 67	ND	ND	-
F	13	Daphne	Knee	?	?	Apr. 68	+	ND	ND
F	5	Bayou le	Leg	2 Mo.	?	Jul. 68	ND	ND	ND
		Batre							
M	2	Mobile	Arm	?	?	Feb. 69	+	ND	ND
F	7	Daphne		?	?	Apr. 69	+	ND	ND
M	16	Fairhope	Elbow	8 Mo.	+	Apr. 69	+	ND	ND
M	16	Daphne	Knee	8 Mo.	+	Jun. 69	+	ND	ND

AFB - Acid-fast bacilli

ND - Not done

^{+ -} Positive

^{- -} Negative

^{? -} Unknown

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 11, 1969 AND OCTOBER 12, 1968 (41st WEEK)

ASEPTIC ENCEPHALITIS HEPATITIS											
	ASEPTIC	BRUCEL-	DIOHED IN					HEPATITIS		1	
AREA	MENIN- GITIS	LOSIS	DIPHTHERIA		including cases	Post- Infectious	Serum	Infectious		MAL	ARIA
	1969	1969	1969	1969	1968	1969	1969	1969	1968	1969	Cum. 1969
UNITED STATES	165	6	3	39	57	3	95	923	1,041	69	2,299
NOTE PAGE 1100	4			6	1		2	Ω1	4.8		77
NEW ENGLAND	_	_	_	6	1 _		2	81	68 5	_	77 6
New Hampshire	-	-	-	-	-	_	-	4	-	-	2
Vermont	-	-	-	-	-	-	-	2	3	-	_
Massachusetts	4	_	_	5	1	_	_	53 15	35 11	-	47 9
Rhode Island Connecticut	_	_	_	- 1	_	_	2	7	14	_	13
Connectitude,							_	,			
MIDDLE ATLANTIC	32	-	-	4	8	1	37	140	201	12	265
New York City	10 6	_	_	1	2 2	_	23 4	35 28	50 34	2	22 43
New York, up-State. New Jersey.*	13	_		2	2		7	24	79	7	107
Pennsylvania	3	_	_	1	2	1	3	53	38	3	93
, and the second											
EAST NORTH CENTRAL	18	_	_	18	34	_	14	152	137	13	256
Ohio Indiana	8	_	_	11	20	-	6	41	48 8	_	22 20
Illinois		_	_	1	6	_	2	43	8	12	160
Michigan	7	_	-	3	5	_	6	57	61	1	53
Wisconsin	-	_	-	3	1	-	_	8	12	-	1
IECT MODELL COMPRAI	25	1		2	,		1	/.2	1.7	2	150
WEST NORTH CENTRAL Minnesota	25 25		_	2	3	_	1	42 8	47 18	3	159
Iowa	_	_	_	_	3	_	_	10	5	_	16
Missouri	-	-	-	-	_	-	-	17	19	-	41
North Dakota	-	-	-	-	-	_	-	-	1	-	3
South Dakota	_	1 _	_	_	_	_	_	1 1	_	1 _	1 3
Nebraska Kansas		_	_	2	_		_	5	4	2	87
				_							
SOUTH ATLANTIC	23	4	-	3	2	2	8	74	134	7	579
Delaware	-	_	-	-		- !	-	2	2	-	3
Maryland Dist. of Columbia	2	_	_	-	1 _	_	1 _	11 2	11	1 _	31
Virginia	10	4	_	_	_	_	_	7	63	_	25
West Virginia	1	_	-	1	_	_ [-	10	2	-	-
North Carolina	3	_	-	-	1	- :	2	5	7	4	260
South Carolina Georgia	5	_	_	_	_	_	_	5 9	8 18	2	51 174
Florida	2	_	_	2	_	2	5	23	23	_	33
EAST SOUTH CENTRAL	20	_	1	-	_	-	-	68	42	-	110
Kentucky Tennessee	1	_	_	_	_	- 1	-	27 29	8 19	-	85 _
Alabama	9	_	1	_	_		_	11	8	_	22
Mississippi	7	-	_	-	-	_	_	1	7	-	3
WEST SOUTH CENTRAL	3	-	1	2	-	-	3	105	83	20	174
Arkansas Louisiana.*	_ 1	_	- 1	_	_	_	2	4 21	2 17	_	13 43
Oklahoma	_	_		_	_	_	_	8	12	1	54
Texas	2	-	-	2	-	-	1	72	52	19	64
MOUNTAIN	_	_	_	1 _	5 2		1	42 1	37	1 _	127
Idaho	_	_	_	_			_	2	1	_	3
Wyoming	_	-	_	-	_	_	_	2	6	-	_
Colorado	-	_	_	1	1	Yes	1	24	-	1	108
New Mexico		-	-		1 -		-	1	5 13	-	7
Arizona Utah	_	_	_		1		_	1	2	_	
Nevada	_	_	_	_		_	_	11	ī	-	4
							**			4.5	
PACIFIC	40 19	1	1	3	1	-	29	219	292	13	552
Washington Oregon	2	_	_	_			_	31 12	25 16	1	14
California	18	1	1	2	3	-	29	173	249	12	437
Alaska	-	-	-	-	_	-	_	1	-	-	3
Hawaii	1	-	-	1	-			2	2	_	93
Puerto Rico	_	_	_	_	_	_	_	30	37	_	2
AD-1								30	3/		

*Delayed reports: Aseptic meningitis: La. delete 1 Encephalitis, primary: Mont. delete 2

Hepatitis, serum: N.J. 12 Hepatitis, infectious: Me. 8, N.J. 18

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 11, 1969 AND OCTOBER 12, 1968 (41st WEEK) - CONTINUED

OCTOBER 11, 1969 AND OCTOBER 12, 1968 (41st WEEK) - CONTINUED											
	MEA	SLES (Rube	ola)	MENINGO	COCCAL INF	ECTIONS,	MUMPS				RUBELLA
AREA		Cumu1	ative		Cumu1	ative		Total	Para	lytic	
	1969	1969	1968	1969	1969	1968	1969	1969	1969	Cum. 1969	1969
UNITED STATES	135	21,000	20,122	2 9	2,469	2,135	774	2	2	14	337
AUDIT THAT AUT	2	1,120	1,164	2	97	125	87	_	_	2	24
NEW ENGLAND	_	9	38	_	6	6	5	_	_	1	2
New Hampshire	-	239	141	_	3	7	5	-	-	_	3
Vermont	2	222	2 363	1	38	64	6 28	_	_	_	1 3
Massachusetts Rhode Island	_	27	6	1	13	9	3	_	_	_	4
Connecticut	-	620	614	-	37	38	40	_	-	1	11
MIDDLE ATLANTIC	16	7,564	4,157	4	405	384	73	_	_	2	28
New York City	8	4,937	2,174	1	77	78	59	_	-	-	5
New York, Up-State.	3 4	605 923	1,233	2	79 160	69 132	NN 14	_	_	1	11
New Jersey Pennsylvania	1	1,099	636 114	1	89	105	NN	_	_	1	8
1 Chinoy I vanization									1		
EAST NORTH CENTRAL	37 3	2,350	3,886 297	6	340 124	258 70	207 26	_	_	_	113 14
Ohio	1	468	685	5	45	36	21	_	_	_	19
Illinois	14	576	1,379	-	49	58	31	-	-	-	10
Michigan	11 8	311 602	284 1,241	1 _	97 25	74 20	65 64	_	_	_	47 23
Wisconsin											
WEST NORTH CENTRAL	12	600	393 16	_	126	115	41	_	_	1 _	30
Minnesota	_	332	103	_	18	8	32	-	-	_	18
Missouri*	-	30	81	-	52	37	2	-	-	-	3
North Dakota	_	15	137 4	_	2	3 5	1 NN	_	_	_	2 _
South Dakota Nebraska	12	205	42	_	9	8	3	_	_	_	_
Kansas	-	7	10	-	16	27	3	-	-	1	7
SOUTH ATLANTIC	8	2,575	1,526	7	427	429	77	_	_	1	21
Delaware	_	393	16	-	12	8	1	-	-	-	-
Maryland	-	77 25	102 6	1	40	35 15	11	_	-	_	2
Dist. of Columbia*. Virginia	1	885	299	_	54	40	7	_	_	_	3
West Virginia	2	211	293	1	19	13	47	_	-	-	4
North Carolina	2 2	318 125	283 12	2	72 57	82 58	NN 10	_	_	_	1 3
South Carolina Georgia	_	2	4	1	72	86	-	_	_	_	_
Florida	1	539	511	2	92	92	1	-	-	1	7
EAST SOUTH CENTRAL	_	113	497	2	150	194	28	_	-	1	8
Kentucky	-	66	100	-	51	89	6	-	-	-	1
Tennessee	-	17	62 95	2	58 24	56 26	22	_	_	1	5 2
Alabama	_	24	240	_	17	23	_	-	-	-	_
	50	4,683	4,889	4	331	313	67	2	2	6	18
WEST SOUTH CENTRAL	-	16	2	_	31	20	-		_	-	-
Louisiana	2	122	24	1 1	89	88	1	-	-	-	-
Oklahoma	48	142 4,403	125 4,738	1 2	31 180	50 155	25 41	2	2	6	1 17
Texas											
MOUNTAIN	_	917 35	1,007 58	2	49 8	37 6	30	_	_	_	23
MontanaIdaho	_	89	21	2	11	11	3	_	-	_	_
Wyoming	-	-	52	-	_	2	-	-	-	-	-
Colorado	_	141 264	515 113	_	8	11 _	10	_	_	_	5
New Mexico Arizona		377	222		10	3				_	
Utah	-	10	21	-	4	1	-	-	-	-	6
Nevada	-	1	5	-	2	3	_	_	-	_	_
PACIFIC	10	1,078	2,603	2	544	280	164	-	-	1	72
Washington	1 1	62 200	546 534	-	56 1B	22	46 16	_	_		26
Oregon	8	766	1,479	2	449	199	82	_	_	1	16
Alaska	-	9	9	-	11	3	4	-	-	-	9
Hawaii		41	35	-	10	12	16	-	-	-	7
Puerto Rico	49	1,626	434	-	19	20	31	-	-		-
*Delayed reports: Meas	2 0 0	1.1 10									

*Delayed reports: Measles: D.C. delete 10

Numps: Me. 6
Poliomyelitis: Me. delete 1 non-paralytic, add 1 paralytic

Rubella: Me. 3, Mo. 29

Morbidity and Mortality Weekly Report

TABLE III CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

OCTOBER 11, 1969 AND OCTOBER 12, 1968 (41st WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETA	ANUS	TULA	AREMIA	TYP: FEV		TICK	S FEVER -BORNE . Spotted)		IES IN IMALS
			Cum.		Cum.		Cum.		Cum.		Cum.
	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969	1969
UNITED STATES	6,409	2	121	1	115	10	245	5	415	41	2,729
NEW ENGLAND	799	-	1	-	14	_	12	-	1	2	31
Maine.*	7	-	-	-	-	-	1	-	-	-	6
New Hampshire	11 11	_	_	_	14	_	_	_	_	2	11
Vermont Massachusetts	156	_	1	_	_	_	7	_	1	_	2
Rhode Island	38	-	-	-	-	-	1	-	_	-	-
Connecticut	576	-	-	-	-	-	3	-	-	-	8
MIOOLE ATLANTIC	268	_	15	_	5	1	27	_	43	9	184
New York City	48	-	7	-	1	-	13	-	-	-	-
New York, Up-State.	128	-	3	-	4	1	6	-	7	7	171
New Jersey	NN 92	_	2	_	_	_	3 5	_	14 22	2	13
Pennsylvania			_								
EAST NORTH CENTRAL	406	2	17	-	13	1	26	-	3	3	197
Ohio	50 122	2	4	_	2	_	9 -	_	_	2	68 48
IndianaIllinois	30	_	8	_	4	_	12	_	3	_	31
Michigan	149	-	5	-	-	-	4	-	-	-	7
Wisconsin	55	-	-	-	7	1	1	-	-	1	43
WEST NORTH CENTRAL	426	-	11	_	13	1	10	_	8	5	504
Minnesota	5	-	3	-	_	1	4	_	- 1	2	134
Iowa	130	-	-,	-	_	-	1	-	7	2	76
Missouri	12 148	_	4	_	9	_	3	_	_	1	127 66
North Oakota South Dakota	30	- 1	-	-	-	_	_	_	1	_	24
Nebraska	94	-	-	-	1	-	1	-	-	-	13
Kansas	7	-	4	-	3	-	1	-	-	-	64
SOUTH ATLANTIC	568	-	21	_	21	_	37	2	231	4	662
Delaware	13	-	-	-	-	-	2	-	3	-	-
Maryland	58	_	1 2	_	_	-	4	_	47	-	3 _
Oist. of Columbia Virginia.*	201	_	_	_	4	_	1	_	75	1	333
West Virginia	136	-	1	-	2		2	-	5	-	94
North Carolina	NN	-	2	-	5	-	6	1	57	-	5
South Carolina	13	_	1 4	_	2 4	_	1 9	1	30 14	1	71
Georgia Florida	143	-	10	_	4	_	11			2	156
EAST SOUTH CENTRAL	1,238	_	18 7	_	12	2 2	35 8	1	62 13	1	361 186
Kentucky Tennessee	854	_	4	_	11	_	19	1	41	1	123
Alabama	202	-	5	-	-	-	4	-	5	_	46
Mississippi	57	-	2	-	1	-	4	-	3	-	6
WEST SOUTH CENTRAL	624	-	21	-	18	3	28	2	46	11	400
Arkansas	16	-	1	-	1	-	13	_	7	-	29
Louisiana	1 17	_	7 1	_	7	_	3	-	28	1 2	30 61
Oklahoma Texas	590		12		6	3	12	2	11	8	280
MOUNTAIN	1,145		6	1	15	-	24	-	16	1	116
MontanaIdaho	36 150	_	1 _	_	_	_	2	_	5	_	_
Wyoming	98	-	- 1	-	2	-	5	-	-	1	53
Colorado	695	-	2	-	-	-	3	-	9	-	3
New Mexico	73		3	-	1 _	-	5 5		_		17
Arizona	93	-	-	1	12	-	_	_	2	_	5
Nevada	-	-	-	-	-	-	1	-	-	-	16
PACIFIC	935	_	11	_	4	2	46	_	5	5	274
PACIFIC	646	_	1	_	2	-	2	_	3	-	4
Oregon	101	-	-	-	1	-	6	-	_	-	4
California		-	10	-	1	2	35	-	2	5	266
Alaska Hawaii	68 120	_	_	_		_	3	_	_	_	_

*Delayed reports: SST: Me. 12

Tetanus: Ariz. 1 RMSF: Va. delete 1

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED OCTOBER 11, 1969

41

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

	By place of	occurrenc	e and week	01 1111	ng certificate. Excludes f	etal death	s)			
	All Causes Preumo		Pneumonia	Pneumonia Under			All Causes Pneu			
Area	411	45	and		Area	A11	65	and	Under 1 year	
nrea	All Ages	65 years and over	Influenza	A11	Arca	Ages	65 years and over	Inf luenza	A11	
		4110 0101	All Ages	Causes			did over	All Ages	Causes	
	742	448	41	35		1 240	644	48	72	
NEW ENGLAND:	248	133	10	22	SOUTH ATLANTIC: Atlanta, Ga	1,240 160	78	1 1	12	
Boston, Mass Bridgeport, Conn	41	27	3	1	Baltimore, Md	228	122	. 5	15	
Cambridge, Mass	27	18	5	-	Charlotte, N. C	67	29	2	9	
Fall River, Mass	21	15	-	1 1	Jacksonville, Fla	87	36	2	6	
Hartford, Conn	58	27	1	5	Miami, Fla	112 59	61 25	6	4 2	
Lowell, Mass	31 25	23 14	2 2		Norfolk, Va	91	52	9	7	
Lynn, Mass	28	19	2	1	Richmond, Va	31	13	3	i	
New Bedford, Mass New Haven, Conn	50	33	_	3	Savannah, Ga	84	73	6	1 1	
Providence, R. I	69	36	5	1	Tampa, Fla.	55	31	4	3	
Somerville, Mass	16	12	2	-	Washington, D. C	222	107	7	9	
Springfield, Mass	41	24	5	-	Wilmington, Oel	44	17	3	3	
Waterbury, Conn	30 57	25 42	4	1		592	311	27	31	
Worcester, Mass	٥,	42	, ,	'	EAST SOUTH CENTRAL: Birmingham, Ala	94	54	1	7	
MIDDLE ATLANTIC:	3,254	1,908	113	121	Chattanooga, Tenn	60	33	7	2	
Albany, N. Y	62	29	2	2	Knoxville, Tenn	40	19	1	3	
Allentown, Pa	51	33	5	1	Louisville, Ky	115	68	12	7	
Buffalo, N. Y	140	80	2	3	Memphis, Tenn	138	58	2	6 2	
Camden, N. J	43	33	1	1	Mobile, Ala	36 33	17	2	1	
Elizabeth, N. J	30 31	21 17	3	2	Montgomery, Ala	76	45	2	3	
Erie, Pa Jersey City, N. J	58	33	4	4	Nashville, Tenn	, ,				
Newark, N. J	67	26	5	6	WEST SOUTH CENTRAL:	1,126	596	43	64	
New York City, N. Y	1,653	971	56	54	Austin, Tex	38	21	2	3	
Paterson, N. J	41	27	1	1	Baton Rouge, La	52	24	3	3	
Philadelphia, Pa	486	278	6	20	Corpus Christi, Tex	26 158	14 80	- 4	13	
Pittsburgh, Pa	193 35	108 26	12	- '-	Dallas, Tex.	33	11	4	2	
Reading, Pa Rochester, N. Y	104	66	5	8	El Paso, Tex Fort Worth, Tex	83	46	3	5	
Schenectady, N. Y	31	23	2	1	Houston, Tex	199	87	3	16	
Scranton, Pa	41	27	-	-	Little Rock, Ark	55	30	3		
Syracuse, N. Y	80	39	3	6	New Orleans, La	138	81	6	6	
Trenton, N. J	52	31	3	1	Oklahoma City, Okla	87 114	53	1 3	5 8	
Utica, N. Y	29 27	21 19	3		San Antonio, Tex	64	43	8	1	
Yonkers, N. Y	21	17	1		Shreveport, La Tulsa, Okla	79	41	3		
EAST NORTH CENTRAL:	2,629	1,494	70	153	iuisa, okia.					
Akron, Ohio	77	47	2	3	MOUNTAIN:	489	282	19	24	
Canton, Ohio	35	21	2	1	Albuquerque, N. Mex	55	32	2	3	
Chicago, Ill	699	381	21	49	Colorado Springs, Colo.	30 138	19 86	2 4	8	
Cincinnati, Ohio	155 220	92 129	2 4	8 15	Denver, Colo	25	15	1 1	1	
Cleveland, Ohio	138	62	1 -	9	Ogden, Utah Phoenix, Ariz	103	52	i	7	
Columbus, Ohio Dayten, Ohio	84	49	1	4	Pueblo, Colo	33	16	4	2	
Detroit, Mich	335	186	7	8	Salt Lake City, Utah	44	27	-	1	
Evansville, Ind	32	21	2	4	Tucson, Ariz	61	35	5	2	
Flint, Mich	66	39	2	3		1 550	006	2/	63	
Fort Wayne, Ind	55	35	4	5	PACIFIC:	1,558	906	24	62	
Gary, Ind	37 44	12 33	2	5 -	Berkeley, Calif Fresno, Calif	47	24	_	2	
Grand Rapids, Mich	450	87	4	10	Glendale, Calif.	26	18	-	2	
Indianapolis, Ind Madison, Wis	63	30	5	5	Honolulu, Hawaii	30	15	-	1	
Milwaukee, Wis	140	86	2	4	Long Beach, Calif	95	48	2	1 1	
Peoria, Ill	50	26	-	8	Los Angeles, Calif	480 79	287 46	9	17	
Rockford, Ill	40 39	31	7 2	4 2	Oakland, Calif.	35	27	1	-	
South Bend, Ind	89	25 56	1	1	Pasadena, Calif	154	102	1	4	
Toledo, Ohio	73	46		5	Portland, Oreg Sacramento, Calif	59	31	-	1	
Youngstown, Ohio					San Diego, Calif.	99	40	1 1	14	
WEST NORTH CENTRAL:	817	503	26	34	San Francisco, Calif	179	98	6	7	
Oes Moines, Iowa	59	39	-	3	San Jose, Calif	1 129	21 80	3	1 2	
Ouluth, Minn	23	11	2 4	4	Seattle, Wash	48	28	7	3	
Kansas City, Kans	73 133	41 84	2	6	Spokane, Wash	34	21	_	2	
Kansas City, Mo	27	13	_		Tacoma, Wash		-			
Lincoln, Nebr Minneapolis, Minn	92	62	1	5	Total	12,447	7,092	411	596	
Omaha, Nebr	66	41	2	2	l 	-	—	1		
St. Louis, Mo	223	127	5	8	Expected Number	11,983	6,888	366	511	
St. Paul, Minn	66	49	2 9	2 4	Cumulative Total					
Wichita, Kans	55	36	8	4	(includes reported corrections for previous weeks)	532,145	304,108	24,367	25,131	
	-					(L D	- No. (annihla d		
las Vogas No. *	30	11	1		*Mortality data are being collected table, however, for statistical reas	from Las Vega ons, these data	s, Nev., lor p will be listed	ossible inclus	included in	
Las Vegas, Nev.*	20	11	'	_	the total, expected number, or cumu	lative total, uni	al 5 years of d	lata are collect	ed.	
+Fortimete hand a sur		- 5 - 14 - 14 -	1 1 1 1 1							

†Estimate - based on average percent of divisional total.

"DAPHNE SORE" - (Continued from page 359)

Director, Laboratories, Alabuma State Department of Public Health; the Mycobacteriology Unit, Bucteriology Section, Laboratory Division, und the Tuberculosis Branch, State und Community Services Division, NCDC; and an EIS Officer.)

Editoriol Comment:

The original isolation of M. marinum was made from fish in the Philadelphia aquarium in 1926. Human skin infections with M. murinum (balnei) associated with swimming pool injuries have been called "swimming pool granuloma," and several large outbreaks have been described,2 M. marinum infection following injury and swimming in pools filled with salt water has been reported from Canada³, Figland⁴, Scotland⁵, and following swimming in the Pacific Ocean⁶ and in the Potomac River, ⁷

From 1960 to the present, 14 cultures sent to the NCDC Mycobacteriology Laboratory have been identified as M. marinum. Review of the case histories of these 14 individuals shows that several of them had a history of trauma and association with salt water. Cases occurred in a Delaware woman injured on a barnacle, two persons from Maryland with a history of trauma while swimming in Chesapeake Bay, a Newport News, Virginia, shipyard worker, a Georgia woman injured on a North Carolina beach, a Louisiana oyster fisherman, and a Washington woman injured on coral in Acapulco, Mexico.

Association of positive skin test sensitivity to PPD-S following infection with M. marinum has been well described 5.9: however, no study has been conducted to define the significance of this infection as a causative factor in positive tuberculin tests in children and adults in the Gulf Coast and Chesapeake Bay areas.

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DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER

OIRECTOR, EPIDEMIOLOGY PROGRAM FOITOR pro ten

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A. O. LANGMUIR M.O.
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ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUN CABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS DR CASE INVESTIGATIONS WHICH ARE DF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL COMMUNICABLE DISEASES, SUCH COMMUNICATIONS SHOULD

NATIONAL COMMUNICABLE DISEASE CENTER

ATTN: THE EDITOR

MORBIDITY AND MORTALITY WEEKLY REPORT

ATLANTA, GEORGIA 30333

THE DATA IN THIS REPORT ARE PROVISIONAL NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCOC BY THE INDIVIOUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES AT CLOSE OF BUSINESS ON FRIDAY; COMPILEO DATA ON A NATIONAL BASIS ARE OFFICIALLY RELEASED TO THE PUBLIC ON THE SUCCEED

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